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### Abstract

Retroviral vector production systems for producing lentivirus-based vector particles which are capable of infecting and transducing non-dividing target cells, wherein one or more of the auxiliary genes such as *vpr*, *vif*, *tat*, and *nef* in the case of HIV-1 are absent from the system. The systems and resulting retrovirus vector particles have improved safety over existing systems and vectors.

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